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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,369	08/23/2006	Jay A. Nelson	899-73077-04	7108
24197 VI ADOLUST	7590 11/02/2007 SDADKMAN LLD		ÉXAM	INER
KLARQUIST SPARKMAN, LLP 121 SW SALMON STREET			WANG, SHENGJUN	
SUITE 1600 PORTLAND, OR 97204			ART UNIT	PAPER NUMBER
,			1617	•
			MAIL DATE	DELIVERY MODE
			11/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	r · · · · · · · · · · · · · · · · · · ·					
	Application No.	Applicant(s)				
	10/564,369	NELSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shengjun Wang	1617				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MO cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 15 Au	Responsive to communication(s) filed on <u>15 August 2007</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1,5-19,35-46,80-93,103-123 and 132-	137 is/are pending in the	application.				
4a) Of the above claim(s) 6-8,11-19,35-46,80-8	4a) Of the above claim(s) <u>6-8,11-19,35-46,80-84,86-88,90-92,103-117 and 123</u> is/are withdrawn from					
consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,5,9,10,85,89,93,118-122 and 132-1</u>	Claim(s) <u>1,5,9,10,85,89,93,118-122 and 132-137</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of	of the certified copies not	t received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						
Paper No(s)/Mail Date	o, La Other	 .				

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DETAILED ACTION

- 1. Claims 6-8, 12-19, 35-46, 80-84, 86-88, 90-92, 103-117 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Claims 11, 123 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on August 15, 2007.
- 2. Applicant's election with traverse of invention group A in the reply filed on August 15, 2007 is acknowledged. The traversal is on the ground(s) that groups A and B should be in one groups as compounds in both groups are within a proper Markush group. This is found persuasive and group A and B are combined as the elected invention. Applicants also elected compound PP2 as the elected species without traverse.

The modified requirement is still deemed proper and is therefore made FINAL.

The claims have been examined insofar as they read on elected invention and species.

Claim Rejections 35 U.S.C. 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 5, 9, 10, 85, 89, 93, 118-122, 132-137 are rejected under 35 U.S.C. 103(a) as being unpatentable over Benish et al. (US 6,504,914, and US 2004/0077663) in view of Hanke et al. (J. Biological Chemistry, 1996, Vol. 271, No. 2, p695-701).

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5. Benish et al. teach a method of using compounds selectively inhibiting Src family of tyrosine kinase (such as Yes, Fyn) and thereby treating various virus infections, particularly HIV. See, particularly, the abstract and the claims in '914 and the claims in '663. Benish et al. further teaches that it is known that The HIV-1 Nef protein interacts with members of the Src family of tyrosine kinases. Nef mediates downregulation of CD4 membrane expression, modification of T-cell activation pathways, and increases virus infectivity. Col. 3, lines 15-30 in '914.

- 6. Benish et al. do not teach expressly the employment of PP2 as the Src inhibitor for treatment of HIV infection or inhibiting the virus duplication.
- 7. However, Hanke et al. teach that PP2 is a known Sre family selective tyrosine kinase inhibitor. See, particularly, the abstract, the structure at page 697 and the table 1 at page 698.

Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, .

at the time the claimed the invention was made, to treat HIV infection by administering to the patients PP2, a known Sre family selective tyrosine kinase inhibitor.

A person of ordinary skill in the art would have been motivated to treat HIV infection by administering to the patients PP2, a known Sre family selective tyrosine kinase inhibitor because Sre family tyrosine kinase is known to facilitate HIV infection, and selective Sre family tyrosine kinase inhibitor is known to be useful for treating HIV, and PP2 is a old and well-known selective Sre family tyrosine kinase inhibitor. As to claim 118, reciting "inhibiting replication", note, the actual step s therein is to contacting a cell infected by HIV with PP2, therefore, a method of treating HIV infected patient with PP2 would meet the limitation of claimed method. Further, since Src tyrosine kinase in known to facilitate the infection of HIV, inhibition of the kinase would have reasonably expected to decrease the replication of the virus.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shengjun Wang whose telephone number is (571) 272-0632. The examiner can normally be reached on Monday to Friday from 7:00 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shengjun Wang Primary Examiner Art Unit 1617

Swamp

SHENGJUN WANG PRIMARY EXAMINEP.